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ſ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/628,933	07/29/2003	Anandan Palani	IN01481KC	7512
	24265 7590 06/14/2007 SCHERING-PLOUGH CORPORATION			EXAMINER	
	PATENT DEP	ARTMENT (K-6-1, 1	- - - ·	CHANG, CELIA C	
	2000 GALLOPING HILL ROAD KENILWORTH, NJ 07033-0530		ART UNIT	PAPER NUMBER	
			1625		
					
				MAIL DATE	DELIVERY MODE
				06/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/628,933	PALANI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Celia Chang	1625					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 04 A	1)⊠ Responsive to communication(s) filed on <u>04 April 2007</u> .						
•—	ction is non-final.						
3) Since this application is in condition for allowar	secution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 21-26 is/are pending in the application	☑ Claim(s) <u>21-26</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) 21 and 25-28 is/are rejected.	☑ Claim(s) <u>21 and 25-28</u> is/are rejected.						
7)⊠ Claim(s) <u>22-24</u> is/are objected to.	<u> </u>						
8) Claim(s) are subject to restriction and/o	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers		. •					
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

Application/Control Number: 10/628,933 Page 2

Art Unit: 1625

DETAILED ACTION

1. Amendment and response filed by applicants dated April 4, 2007 have been entered and considered carefully.

Claims 1-20, 27-40 have been canceled.

Claims 21-26 are pending.

2. The rejection of claims 21, 25-28 under 35 USC 112 second paragraph is maintained for claim 21 with additional rejection as explained below, but dropped for claims 25-28 in view of the amendment.

The explanation about ketone linkage is not persuasive. Linkage via a ketone group, which is a bivalent moiety, is not always equivalent to an alkyl/aryl-carbonyl, i.e. see Morrison and Boyd attached. It is unclear what does this bonding arrangement should be since there is no example for this linkage, and pages 35-39 process of making does not support the described "ketone" bondage.

An oversight was observed and hereby rejected. In claim 21, R1 is M-R4 and R4 is defined being 1-3 $-(C_1-C_6)$ alkyl- $N(R^{21})SO_2R^{22}$. Later in the claims M was defined to be an "aryl *optionally* substituted with R4" wherein said aryl is phenyl". The claimed scope is ambiguous and indefinite because the definitions are self conflicting. Since M-R4 is the moiety, and R4 can not be hydrogen, M cannot be "optionally" substituted but must always be substituted by at least one R4.

- 3. The rejection of claim 21 under 35 USC 112 first paragraph is dropped in view of the deletion of the solvates.
- 4. The provisional rejection of claims 21-30 under the judicially created doctrine of obviousness type double patenting is maintained for claims 21, 25-26.

Please note that the $-(C_1-C_6)$ alkyl linker of R4 inclusive of C4 of the copending claims. The replacement of two of the methylene units with an bioisosteric structure is conventional modification suggested by the prior art for maintaining bioactivity. No where in the claim or

Art Unit: 1625

specification that the four carbon linker should not be of choice. Therefore, a case of prima facie obviousness has been established based on conventional bioisosteric modification. If applicants' argument is drawn to that all the species of the instant application are two carbon chain alkylene, then such limitation can only be found in claims 22-24.

- 5. Claims 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celia Chang whose telephone number is 571-272-0679. The examiner can normally be reached on Monday through Thursday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas McKenzie, Ph. D., can be reached on 571-272-0670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

OACS/Chang Jun 7, 2007 Celia Chang
Primary Examiner
Art Unit 1625